Table 5.2-25. Emissions for Diesel IC Engines

	Fire Water Pump Engine	Emergency Generator Engine
Estimated BHP	368	985
Estimated kW	274	735
Hourly Emissions (lb/hr)		
NO_x	7.41	12.86
CO	1.75	2.46
POC	0.18	0.14
PM_{10}	0.13	0.87
SO_x	0.75	0.80
Annual Emissions (tpy)		
NO_x	0.1852	0.3216
CO	0.0438	0.0615
POC	0.0045	0.0034
PM_{10}	0.0033	0.0217
SO_x	0.0189	0.0199

Total combined annual emissions (four turbines with duct firing, cooling tower, and both diesel IC engines are included) are shown in Table 5.2-26.

Table 5.2-26. Total Annual Emissions for TPP During Operation

Pollutant	Generator Set #1[c] (tpy)	Generator Set #2[c] (tpy)	Cooling Tower (tpy)	Fire Water Pump Engine (tpy)	Diesel Generator (tpy)	Annual Emissions (tpy)[a,b]
NO_x	122.6	122.6	--	0.185	0.322	**245.76**
CO	234.2	234.2	--	0.044	0.062	**468.46**
POC	29.5	29.5	--	0.005	0.003	**58.91**
PM_{10}	94.8	94.8	6.1	0.003	0.022	**195.64**
SO_2	14.7	14.7	--	0.019	0.020	**29.50**

a Includes emissions from four turbines, cooling tower, and emergency IC engines.

b Emissions include 12 cold startups, 6 warm starts, and 27 hot startups, and 5,260 hours at 100% duct burner capacity with the balance of the time operating at 100% load at 62°F. See Table 5.2-19 for details.

c Each generator set includes two CTG/HRSGs and associated duct burners